## WHAT IS CLAIMED IS:

1. A pickup device for a dielectric recording / reproducing apparatus using a dielectric material as a recording medium, comprising:

a first electrode for applying an electric field to the dielectric material;

an electrode holding member for holding said first electrode; an arm portion equipped with said electrode holding member;

a rotating mechanism for rotating said arm portion.

2. The pickup device according to claim 1, wherein said electrode holding member has a gimbal structure.

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and

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3. The pickup device according to claim 1, wherein said electrode holding member contains a conductive member and is mounted on one end of said arm portion via an insulating member.

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- 4. The pickup device according to claim 1, wherein said electrode holding member and said first electrode are formed in one piece.
- The pickup device according to claim 3, comprising a second electrode for returning a high-frequency electric field applied from said first electrode to the dielectric material of the recording medium, the second electrode being placed on a surface of the insulating

member facing to the recording medium.

6. The pickup device according to claim 1, wherein said electrode holding member contains an insulating member.

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- 7. The pickup device according to claim 6, comprising a second electrode for returning a high-frequency electric field applied from said first electrode to the dielectric material of the recording medium, the second electrode being placed around said electrode holding member.
- 8. The pickup device according to claim 7, wherein one end of said arm portion is used as said second electrode.
- 15 9. The pickup device according to claim 6, wherein a plurality of said first electrodes are disposed on said electrode holding member.
  - 10. The pickup device according to claim 1, comprising:
  - an inductor which forms a resonance circuit with a capacitance of the dielectric material of the recording medium just under said first electrode; and

an oscillator which oscillates at a resonance frequency of the resonance circuit,

wherein the inductor and the oscillator are placed in the vicinity of said first electrode.

11. The pickup device according to claim 1 further comprising an oscillator, wherein the first electrode is placed at one end of the arm portion, the oscillator is placed at another end of the arm portion, and a rotating shaft of said rotating mechanism is located between the first electrode and the oscillator.

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- 12. The pickup device according to claim 1 further comprising a weight, wherein the first electrode is placed at one end of the arm portion, the weight is placed at another end of the arm portion, and a rotating shaft of said rotating mechanism is located between the first electrode and the weight.
- 13. The pickup device according to claim 1, wherein said rotation mechanism is a motor of rotational type.
- 14. The pickup device according to claim 1, wherein said rotation mechanism is a motor of linear movement type.
- 15. The pickup device according to claim 1, wherein a tip portion of said first electrode does not project from a surface of said electric holding member facing to the recording medium.
  - 16. The pickup device according to claim 1, wherein said electric holding member has a sloping surface sloping with respect to a surface parallel to a surface of the recording medium, the sloping surface is located at a portion facing a moving direction of the

recording medium.

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17. The pickup device according to claim 1, comprising a device for reproducing information recorded in the dielectric material of the recording medium on the basis of a scanning nonlinear dielectric microscopy method.